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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/217,347	12/21/1998	JOHN G. FIJOLEK	98666	8453

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EXAMINER	
KOENIG, ANDREW Y	
ART UNIT	PAPER NUMBER
2611	22

DATE MAILED: 08/08/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Interview Summary	Application No. 09/217,347	Applicant(s) FIJOLEK ET AL.	
	Examiner Andrew Y Koenig	Art Unit 2611	

All participants (applicant, applicant's representative, PTO personnel):

(1) *Andrew Y Koenig*. (3)_____.

(2) *Julian Santos*. (4)_____.

Date of Interview: *05 August 2003*.

Type: a)☒ Telephonic b)☐ Video Conference
c)☐ Personal [copy given to: 1)☐ applicant 2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes e)☐ No.
If Yes, brief description: _____.

Claim(s) discussed: *Proposed claim 60*.

Identification of prior art discussed: *DOCSIS of record*.

Agreement with respect to the claims f)☐ was reached. g)☒ was not reached. h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *Discussed claim 60 of the proposed amendment and the scope of the term "adjunct" and "deferred-inactive-service-identifier" in light of cellular technologies. Applicant will file a response to the last official office action*.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

ANDREW FAILE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

_____
Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews
Paragraph (b)
In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

mbhb
McDonnell Boennen Hulbert & Berghoff
Law Offices

Fax transmittal

To	Andrew Y. Koenig	Date	August 4, 2003
Company	USPTO	From	Julian F. Santos
Fax	703 746 5748	Direct	312 913 3304
Phone	703 306 0399	Email	santos@mbhb.com
Pages, with cover	13	C/M	
Re	Proposed Claim Amendments for Discussion Purposes		

Dear Examiner Koenig:

Attached are proposed claim amendments for pending application 09/217,347 (Attorney Docket No. 98-666). I look forward to discussing these amendments at 2:00 p.m. eastern standard time on August 5, 2003.

Sincerely,

Julian F. Santos
Reg. No. 47,917

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AMENDMENTS

In the claims:

31. (Currently amended) In a data communication system including a plurality of network devices, a method for providing dynamic services comprising the steps of:

receiving during initialization at a second network device a registration message from a first network device containing parameters associated with a plurality of capabilities of the first network device used for supporting at least one service device associated with the first network device;

configuring the second network device and a service server adjunct to ~~associated with the communication system~~ the second network device with at least one deferred-session-based service for the service device;

associating a deferred-inactive-service identifier with the at least one deferred-session-based service, wherein the deferred-inactive-service identifier is used to activate the at least one deferred-session-based service at the later time; and

sending the deferred-inactive-service identifier to the first network device.

32. (Previously presented) The method of claim 31, further comprising the steps of:

receiving at the second network device from the first network device the deferred-inactive-service identifier;

responsive to the deferred-inactive-service identifier, activating the at least one deferred-session-based service between the session server and the service device; and

changing the deferred-inactive-service identifier to a deferred-active-service identifier.

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33. (Previously presented) The method of claim 32, further comprising the steps of:

receiving at the second network device from the first network device the deferred-active-service identifier;

responsive to the deferred-active-service identifier, deactivating the at least one deferred-session-based service between the session server and the service device; and

changing the deferred-active-service identifier to a deferred-inactive-service identifier.

34. (Currently amended) In a data communication system including a plurality of network devices, a method for providing dynamic services comprising the steps of:

sending during initialization from a first network device to a second network device a registration message containing parameters associated with a plurality of capabilities of the first network device used for supporting at least one service device associated with the first network device, wherein a deferred-inactive-service identifier is associated with the at least one deferred-session-based service adjunct to services provided by the second network device, and wherein the deferred-inactive-service identifier is used to activate the at least one deferred-session-based service at the later time; and

receiving at the first network device from the second network device the deferred-inactive-service identifier.

35. (Currently amended) The method of claim 34, further comprising the steps of:

sending to the second network device from the first network device the deferred-inactive-service identifier; wherein in response to the deferred-inactive-service identifier, the at least one deferred-session-based service between the service device and ~~the~~ a service server adjunct to the

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second network device ~~and the service device~~ is activated; and wherein the deferred-inactive-service identifier is changed to a deferred-active-service identifier.

36. (Previously presented) The method of claim 35, further comprising the steps of:

sending to the second network device from the first network device the deferred-active-service identifier; wherein responsive to the deferred-active-service identifier, the at least one deferred-session-based service between the service server and the service device is deactivated; and wherein the deferred-active-service identifier is changed to a deferred-inactive-service identifier.

37. (Currently amended) In a data communication system including a plurality of network devices, a method for providing dynamic services comprising the steps of:

a second network device receiving a first message from a first network device, wherein the first message includes parameters associated with a plurality of capabilities of the first network device used for supporting at least one deferred-session-based service between a service server adjunct to the second network device ~~associated with the data communication system~~ and a service device associated with the first network device;

extracting the parameters from the first message;

creating a service-session profile for the at least one deferred-session-based service, wherein the service-session profile includes one or more of the parameters;

using the service-session profile to configure the service server and the second network device for the at least one deferred-session-based service for activation at a later time;

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associating the service-session profile with a deferred-inactive-service identifier, wherein the deferred-inactive-service identifier is used to activate the at least one deferred-session-based service at the later time; and

sending the deferred-inactive-service identifier to the first network device in a second message.

38. (Previously presented) A computer readable medium having stored therein instructions for causing a central processing unit to execute the method of claim 37.

39. (Previously presented) The method of claim 37, wherein the first network device is a cable modem and the second network device is a cable modem termination system.

40. (Previously presented) The method of claim 37, wherein the deferred inactive service identifier is a Medium Access Control Protocol service identifier.

41. (Previously presented) The method of claim 37, wherein the parameters include any of quality-of-service, class-of-service, type-of-service or voice service parameters.

42. (Previously presented) The method of claim 37, wherein the first message is a registration message and the second message is a registration response message.

43. (Previously presented) The method of claim 37, wherein the deferred-inactive-service identifier is encoded in a Type-Length-Value format.

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44. (Previously presented) The method of claim 37, further comprising the steps of:

the second network device receiving from the first network device a service request to activate the at least one deferred-session-based service, wherein the service request includes the deferred-inactive-service identifier;

responsive to the deferred-inactive-service identifier, activating the at least one deferred-session-based service between the session server and the service device; and

changing the deferred-inactive-service identifier to a deferred-active-service identifier.

45. (Previously presented) The method of claim 37, further comprising the step of generating a service event on the service server to request activation of the at least one deferred-session-based service, wherein the step of generating a service event occurs prior to activation of the at least one deferred-session-based service.

46. (Previously presented) The method of claim 44, wherein the service server is any of a Remote Authentication Dial In User Server, a Voice over Internet Protocol server, Asynchronous Transport Mode Server, Frame Relay Server, or an Integrated Services Digital Network server, or an Asymmetric Digital Subscriber Line server.

47. (Previously presented) The method of claim 45, wherein the step of generating a service event includes generating any of an authentication, authorization or an accounting event.

48. (Previously presented) The method of claim 37, further comprising the steps of:

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the second network device receiving from the first network device a service request to deactivate at least one deferred-session-based service, wherein the service request includes the deferred-active-service identifier;

generating a service event on the service server to request deactivation of the desired service;

deactivating the at least one deferred-session-based service; and

changing the deferred-active-service identifier to a deferred-inactive-service identifier.

49. (Currently amended) In a data communication system including a plurality of network devices, a method for providing dynamic services comprising the steps of:

a second network device receiving from a first network device a service request to activate at least one deferred-session-based service between a service server ~~associated with~~ adjunct to ~~the data communication system~~ the second network device and a service device associated with the first network device, wherein the service request includes a deferred-inactive-service identifier that is registered during initialization and associated with the at least one deferred-session-based service;

responsive to the deferred-inactive-service identifier, generating a service event on the service server to request activation of the at least one deferred-session-based service;

activating the at least one deferred-session-based service using a previously created service-session profile associated with the deferred-inactive-service identifier; and

changing the deferred-inactive-service identifier to a deferred-active-service identifier.

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50. (Previously presented) A computer readable medium having stored therein instructions for causing a central processing unit to execute the method of claim 53.

51. (Previously presented) The method of claim 49, wherein the first network device is a cable modem and the second network device is a cable modem termination system.

52. (Previously presented) The method of claim 49, wherein the deferred-inactive-service identifier is a Medium Access Control Protocol service identifier and the deferred-active-service identifier is a Medium Access Control Protocol Service identifier.

53. (Previously presented) The method of claim 49, wherein the step of generating a service event includes generating any of an authentication, authorization or an accounting event.

54. (Previously presented) The method of claim 49, wherein the service server is any of a Remote Authentication Dial In User Server, a Voice over Internet Protocol server, Asynchronous Transport Mode Server, Frame Relay Server, an Integrated Services Digital Network server, or an Asymmetric Digital Subscriber Line server.

55. (Previously presented) The method of claim 49, wherein the service request is a Voice over Internet Protocol off-hook request.

56. (Currently amended) In a data communication system including a plurality of network devices, a method for providing dynamic services comprising the steps of :

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a second network device receiving from a first network device a service request to deactivate at least one deferred-session-based service occurring between a service server ~~associated with the data communication system~~ adjunct to the second network device and a service device associated with the first network device, wherein the service request includes a deferred-active-service identifier, and wherein the deferred-active-service identifier is a complement of a deferred-inactive-service identifier that is registered during initialization;

responsive to the deferred-active-service identifier, generating an event on the service server to request deactivation of the at least one deferred-session-based service;

deactivating the at least one deferred-session-based service; and

changing the deferred-active service identifier to ~~a~~ the deferred~~-~~inactive~~-~~service identifier.

57. (Previously presented) A computer readable medium having stored therein instructions for causing a central processing unit to execute the method of claim 56.

58. (Previously presented) The method of claim 56, wherein the deferred-active-service identifier is a Medium Access Control Protocol service identifier and the deferred-inactive-service identifier is a Medium Access Control Protocol service identifier.

59. (Previously presented) The method of claim 56, wherein the service request is a Voice over Internet Protocol on-hook request.

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60. (Currently amended) In a data communication system including a plurality of network devices, a method for providing dynamic services comprising the steps of:

a first network device sending to a second network device a service request to activate at least one deferred-session-based service between a service server ~~associated with the data communication system~~ adjunct to the second network device and a service device associated with the first network device, wherein the service request includes a deferred-inactive-service identifier that is registered during initialization and associated with at least one deferred-session-based service; and

the first network device receiving from the second network device a service notification from the service server indicating that the at least one deferred-session-based service has been activated.

61. (Previously presented) A computer readable medium having stored therein instructions for causing a central processing unit to execute the methods of claim 60.

62. (Currently amended) In a data communication system including a plurality of network devices, a method for providing dynamic services comprising the steps of:

a first network device sending a service request to a second network device to deactivate at least one deferred-session-based service between a service server ~~associated with the data communication system~~ adjunct to the second network device and a service device associated with the first network device, wherein the at least one deferred-session-based service is adjunct to services provided by the second network device, and wherein the service request includes a

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deferred-active-service identifier associated with the at least one deferred-session-based service; and

the first network device receiving a service notification from the service server indicating that the at least one deferred-session-based service has been deactivated.

63. (Previously presented) A computer readable medium having stored therein instructions for causing a central processing unit to execute the method of claim 62.

64. (Currently amended) A system for providing dynamic services to a network device in data communication system, the system comprising in combination:

a second network device for providing at least one deferred-session-based service between a service device associated with a first network device and a service server adjunct to the second network device~~associated with the data communication system~~;

a service-session profile including parameters associated with a plurality of capabilities of the first network device used for supporting at least one deferred-session-based service between ~~a~~ the service server ~~associated with the data communication system~~ and a service device associated with the first network device, wherein the service-session profile is used by the service server for configuring the second network device and the service server for at least one deferred-session-based service;

a deferred-inactive-service identifier associated with the service-session profile for later activating a previously-configured at least one deferred-session-based service;

a deferred-active-service identifier created from the deferred-inactive-service identifier for indicating that the at least one deferred-session-based service is active; and

a service event generator for generating a service event on the service server to request activation of the at least one deferred-session-based service.

65. (Currently amended) In a data communication system including a plurality of network devices, a method for providing dynamic services comprising the steps of:

a cable modem termination system receiving from a cable modem during initialization a registration message, wherein the registration message includes parameters associated with a plurality of capabilities of the cable used for supporting at least one deferred-session-based service between a service server ~~associated with the data communication system~~ adjunct to cable modem termination system and a service device associated with the cable modem;

extracting the parameters from the registration message;

creating a service-session profile for the at least one deferred-session-based service, wherein the service-session profile includes one or more of the parameters;

using the service-session profile to configure the cable modem termination system and the service server for the at least one deferred-session-based service for activation at a later time;

associating the service-session profile with one or more deferred-inactive-medium-access-control-protocol-service identifiers, wherein the one or more deferred-inactive-medium-access-control-protocol-service identifiers are used by the service device to activate the at least one deferred-session-based service between the service server and the service device at the later time, and wherein the one or more deferred-inactive-medium-access-control-protocol-service identifiers are used by the service servers to generate events for requesting activation of the at least one deferred-session-based service; and

sending the one or more deferred-inactive-medium-access-control-protocol-service identifiers to the cable modem in a registration response message.

66. (Previously presented) A computer readable medium having stored therein instructions for causing a central processing unit to execute the method of claim 65.

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